

Engineering Development Model

BandPass Filter

Surface Mount

SXBP-EDU1295+

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : HF1139

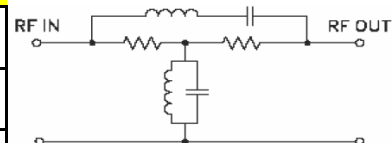
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 1 dB)	54		74	MHz
Centre frequency		64		MHz
Low Band (Loss > 20 dB)	DC		2.5	MHz
Low Band (Loss > 10 dB)	2.5		10	MHz
High Band (Loss > 10 dB)	360		700	MHz
High Band (Loss > 20 dB)	700		800	MHz
Passband VSWR		1.2		(:1)
Stopband VSWR		1.2		(:1)

Functional Schematic

MAXIMUM RATINGS

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.2 W



PIN CONNECTIONS

Input	1
Output	8
Not Connected	-
Case Ground	2, 3, 4, 5, 6, 7

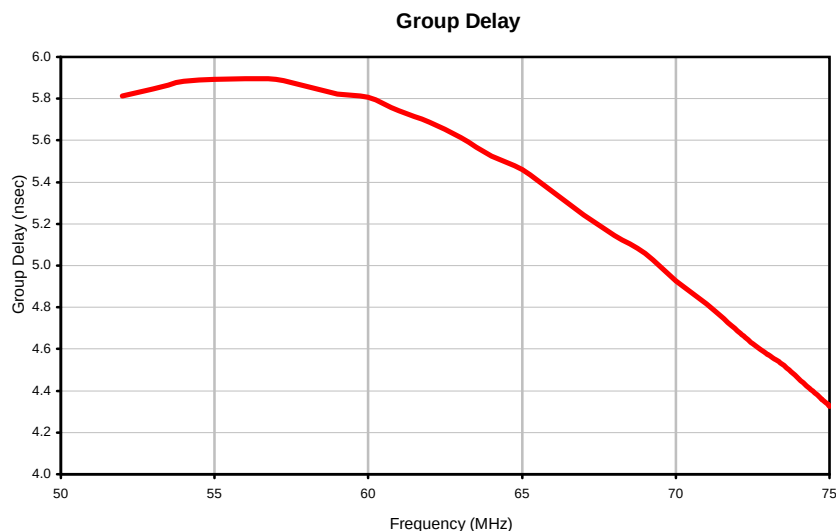
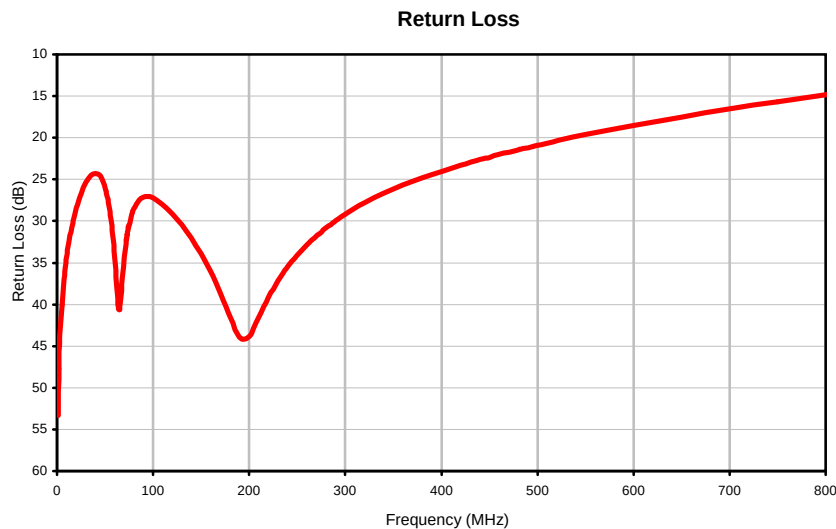
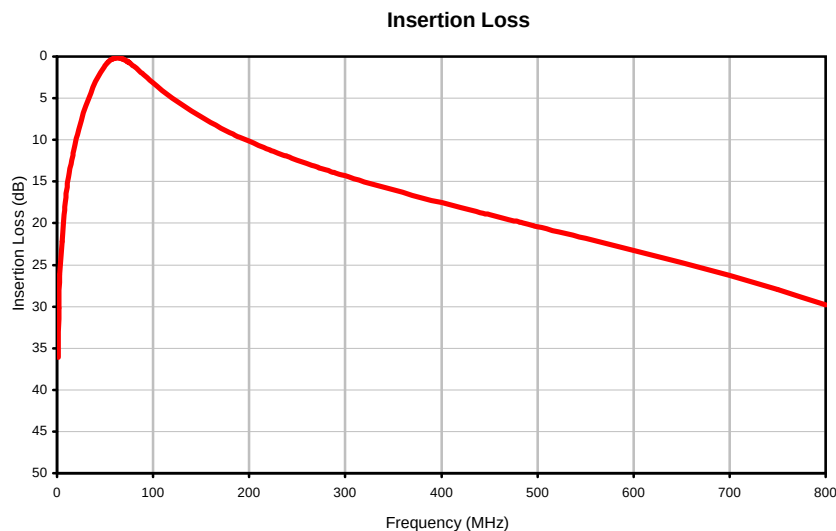
Surface Mount Band Pass Filter

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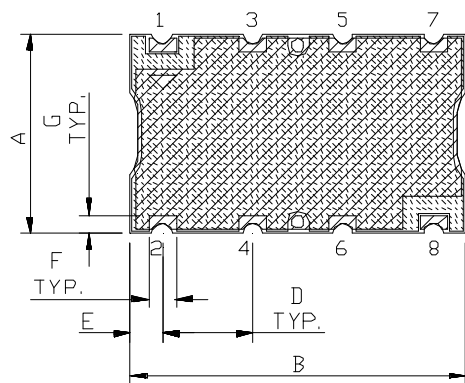
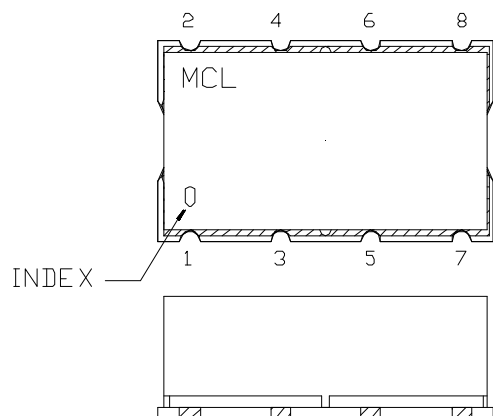
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1	36.08	51.71	52	5.80
3	26.16	42.18	53	5.83
10	16.08	32.55	54	5.86
15	12.45	29.14	55	5.84
20	9.80	26.73	56	5.84
25	7.68	24.96	57	5.83
35	4.34	22.83	58	5.80
40	3.01	22.52	59	5.74
45	1.91	22.89	60	5.73
51	0.92	24.70	61	5.67
54	0.57	26.32	62	5.61
58	0.27	29.78	63	5.52
64	0.16	40.33	64	5.45
68	0.28	37.77	65	5.36
69	0.32	36.00	66	5.26
74	0.65	30.49	67	5.15
85	1.66	26.46	68	5.06
100	3.17	25.74	69	4.95
140	6.56	29.24	70	4.84
200	10.16	39.88	71	4.71
360	16.32	27.94	72	4.57
500	20.40	22.40	73	4.46
700	26.29	17.68	74	4.35
800	29.78	15.85	75	4.22

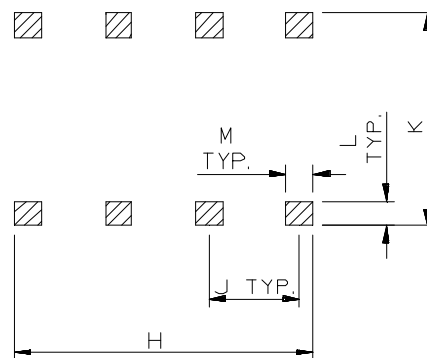
Typical Performance Curves



Outline Dimensions



PCB Land Pattern



CASE #	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAMS
HF1139	.44 (11.18)	.74 (18.80)	.27 (6.86)	.200 (5.08)	.07 (1.78)	.060 (1.52)	.040 (1.02)	.660 (16.76)	.200 (5.08)	.470 (11.94)	.055 (1.40)	.060 (1.52)	3.0

Dimensions are in inches (mm). Tolerances: 2 Pl. ± 0.015 "; 3 Pl. ± 0.01 "

Notes:

- Case material: Nickel-Silver alloy.
- Base: Printed wiring laminate.
- Termination finish:
 - For RoHS Case Styles: 2-5 μ inch (.05-.13 microns) Gold over 120-240 μ inch (3.05-6.10 microns) Nickel plate.
 - For RoHS-5 Case Styles: Tin-Lead plate.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

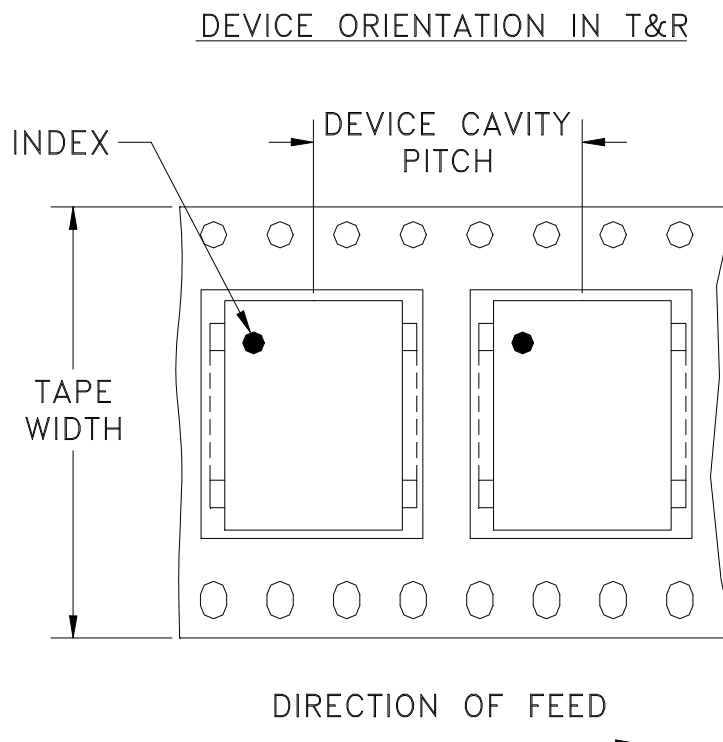


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RF/IF MICROWAVE COMPONENTS



Tape & Reel Packaging TR-F5



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
32	16	13	500

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

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